

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US04/21472

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC : A61K 43/42

US CL : 514/311

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 514/311; 702/19,20,27

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,989,827 (Fesik et al.) 23 November 1999 (23.11.99), See Abstract and throughout.	1-6, 15-17, 20, 23, 24, and 26-28
Y		7-14, 18, 19, 21, 22, and 25
X,P	US 2004/0153256 A1 (Woods, JR) 05 August 2004 (05.08.2004), see Abstract and throughout.	1-13, 15-21, and 23-28
Y,P		14 and 22
Y	Shiau et al. "The structural basis of Estrogen Receptor/Coactivator Recognition and the antagonism of this interaction by Tamoxifen" Cell (23-December 1998), Vol. 95, pages 927-937, see Abstract and throughout.	7-10
Y	Marinissen et al. "A network of Mito-gen-Activated protein kinases Links G Protein-coupled receptors to the c-jun promoter: a role for c-Jun NH <sub>2</sub> -terminal Kinase, p38s, and extracellular signal-regulated kinase 5", Molecular and Cell Biology, (June 1999), Vol. 19, pages 4289-4301, see especially Abstract and throughout.	11-14



Further documents are listed in the continuation of Box C.



See patent family annex.

Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step
"B" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Z"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&"	document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search

23 January 2006 (23.01.2006)

Date of mailing of the international search report

16 MAY 2006

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**INTERNATIONAL SEARCH REPORT**International application No.  
PCT/US04/21472**C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y <input checked="" type="checkbox"/>	Smith et al. "Probing the non-covalent structure of proteins by amide hydrogen exchange and Mass spectrometry", Journal of Mass Spectrometry, (1997), Vol. 32, pages 135-146, see especially Abstract and throughout.	18, 19, 21, 22, and 25

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Continuation of B. FIELDS SEARCHED Item 3:  
EAST; STN (Medline, Biosis, CAPlus)  
search terms: hydrogen exchange, model(ing), 3D structure, transcription factor, G-coupled protein receptor